

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,883	09/28/2001 Tim Majni COMP024		COMP0245/FLE P01-3689	3471
7590 09/24/2004			EXAMINER	
INTELLECTUAL PROPERTY ADMINISTRATION			DUNCAN, MARC M	
. LEGAL DEPA	RTMENT, M/S 35			
PO BOX 272400			ART UNIT	PAPER NUMBER
FT COLLINS, CO 80527-2400			2113	

DATE MAILED: 09/24/2004

 \searrow

Please find below and/or attached an Office communication concerning this application or proceeding.



		·				
	Application No.	Applicant(s)				
Office Astion Commons	09/965,883	MAJNI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marc M Duncan	2113				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-91</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-91</u> are subject to restriction and/or €	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents	s have been received. s have been received in Applicati rity documents have been receive	ion No				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	аши Аррисацой (РТО-152)				
0 Division 17 divi	· -					

_ Application/Control Number: 09/965,883

Art Unit: 2113

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-17, drawn to the generation of low and high priority interrupt signals based on the operation status of a memory cartridge, classified in class 714, subclass 48.
- II. Claims 18-29, drawn to blocking of interrupt generation based on a programmable masking register storing a chip select, classified in class 714, subclass 5.
- III. Claims 30-49 and 53-56, drawn to a redundant memory system with ECC logic, classified in class 714, subclass 6.
- IV. Claims 50-52, drawn to storing a module ID number in an I2C interface, classified in class 710, subclass 13.
- V. Claims 57-78, drawn to hot plugging of a memory module with progress indicators and data rebuild, classified in class 710, subclass 302 and in class 714, subclass 6.
- VI. Claims 79-91, drawn to lighting an LED on a memory module from a remote location, classified in class 714, subclass 57 and class 362, subclass 555.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, III, IV, V and VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each

, Application/Control Number: 09/965,883

Art Unit: 2113

other if they are shown to be separately usable. In the instant case, invention I has separate utility such as generating different classes of interrupt signals depending on whether each of a plurality of devices is in a particular state. Invention II has separate utility such as blocking redundant interrupts from a faulty memory module. Invention III has separate utility such as a redundant memory system that detects errors using ECC logic and stores information used to detect or correct the errors in a reserved area of memory. Invention IV has separate utility such as storing an ID number of a module to identify that module in an I2C interface. Invention V has separate utility such as allowing hot plug of a module with progress indicators to alert a user to the current state of the hot plug operation. Invention VI has separate utility such as illuminating an indicator from a remote location in order to identify a particular device. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Page 4

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc M Duncan whose current telephone number is 703-305-4622. The examiner's telephone number as of October 15th will be 571-272-3646. The examiner can normally be reached on M-T and TH-F 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on 703-305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

md

ROBERT BEAUSOLIEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100